

Attorney Docket No.: FMCE-P145

In the Claims:

1 (currently amended): A control system for a subsea installation, the control system comprising:

a control module;

a common bus which is connected to the control module and which comprises ~~at least one cable unit~~ a number of cable units, including a last cable unit which is located at a distal end of the common bus; and

a plurality of devices which are each removably connectable to the common bus;

wherein each device comprises a bus controller having a unique address;

wherein the control module comprises means for communicating with each device over the common bus; and

wherein the common bus further comprises ~~at least one from the group consisting of an end termination and a repeater, each of which is~~ removably connectable to the distal end of the last cable unit and which comprises a termination hub for electrically terminating the common bus.

2 (canceled).

3 (currently amended): A control system according to claim 1, wherein ~~the~~ each cable unit comprises a cable having at least one electrical connector at each end.

4 (currently amended): A control system according to claim 1, wherein the common bus further comprises at least one distribution hub which is removably

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connectable to one of the cable unit units.

5 (canceled).

6 (canceled).

7 (canceled).

8 (previously amended): A control system according to claim 3, wherein said at least one electrical connector is removably connectable to at least one of said plurality of devices.

9 (previously amended): A control system according to claim 1, wherein the common bus comprises a CAN bus.

10 (previously amended): A control system according to claim 1, wherein at least one of said plurality of devices comprises a battery.

11 (previously amended): A control system according to claim 1, wherein at least one of said plurality of devices comprises an electro-hydraulic pod.

12 (previously amended): A control system according to claim 1, wherein at least one of said plurality of devices comprises an actuator.

13 (previously amended): A control system according to claim 1, wherein at least one of said plurality of devices comprises a sensor.

14 (canceled).

15 (canceled).

16 (currently amended): A control system for a subsea installation which comprises:

a control module;

a common bus which is connected to the control module and which

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comprises at least one cable unit; and

a plurality of devices which are each removably connectable to the cable unit;

wherein each device comprises a bus controller having a unique address;

wherein the control module comprises means for communicating with each device over the common bus;

wherein said cable unit comprises a junction~~[[,]]~~ and a plurality of branch cables, each of which comprises a first end that is connected to the junction, a second end that is connected to a corresponding at least one electrical connector which in turn is removably connectable to one of the devices, and at least two control signal supply cables ~~extending~~ which each extend between said first and second ends and are connected to said junction and said corresponding electrical connector; and

wherein said ~~at least two~~ control signal supply cables are directly electrically joined connected to each other at said corresponding electrical connector.

17 (currently amended): A control system according to claim 16, wherein said branch cable unit further comprises at least two control signal return cables extending which extend between said first and second ends and are connected to said junction and said corresponding electrical connector.

18 (canceled).

19 (currently amended): A control system for a subsea installation which

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comprises:

a control module;

a common bus which is connected to the control module and which comprises at least one cable unit; and

a plurality of devices which are each removably connectable to the cable unit;

wherein each device comprises a bus controller having a unique address;

wherein the control module comprises means for communicating with each device over the common bus;

wherein said cable unit comprises a junction[,]] and a plurality of branch cables, each of which comprises a first end that is connected to the junction, a second end that is connected to a corresponding at least one electrical connector which in turn is removably connectable to one of the devices, and at least two control signal cables which extend between the first and second ends and are connected to said junction and said corresponding electrical connector; and

wherein each of said control signal cables comprises a current loop which is routed through each said electrical connector and said junction.

20 (previously amended): A control system according to claim 3, wherein at least one electrical connector comprises a female connector.

21 (previously amended): A control system according to claim 3, wherein at least one electrical connector comprises a male connector.

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22 (previously amended): A control system according to claim 3, wherein  
at least one electrical connector comprises a signal termination component.